

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: WU, Chin-Ping

SERIAL NO.:

FILED: Herewith

TITLE: TEMPERATURE-RATED VARIABLE SPEED CONTROL CIRCUIT OF AN  
ELECTRIC FAN

PRELIMINARY AMENDMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In conjunction with the filing of the present application, and prior to an initial Official Action on this matter, please amend the above-identified application as follows:

Preliminary Amendment: SPECIFICATION AMENDMENTS

In Paragraph [0004], please amend the paragraph as follows:

A key technical issue that needs to be resolved primarily lies in how best to address issues surrounding the conventional D.C. electric fan having a less than perfected temperature control feature; and excessive electromagnetic noise at low cycles;

In Paragraph [0010], please amend the paragraph as follows:

FIG. 2 shows a graphic illustration showing a temperature curve view of the electric fan air-volume speed-control circuit as proposed by the invention.

IN THE ABSTRACT

On page 10, please amend the Abstract as follows:

~~The invention pertains to a preferred embodiment of an~~ An electric fan temperature-rated variable speed control circuit, ~~which is comprised of~~ includes a D.C. current source and fan activation IC; ~~and. There are,~~ between the current source positive and negative poles ~~are~~ serially connected

transistor ~~R1~~, regulation tube ~~DZ~~, with the regulation tube ~~DZ~~ negative pole linked to the current source negative pole, and its positive pole, incorporated to form the primary current, ~~where its positive pole also contains bypass thermal resistor Rtr linking to triode Q1 base.~~ Between said triode ~~Q1~~ base and collector lies a serially connected resistor ~~Q2~~, whose collector is linked to the current negative pole, and its current base passing through resistor ~~R3~~ to link to triode ~~Q2~~ to provide the triode ~~Q2~~ with a second primary current. Said, The triode ~~Q2~~ collector is linked to the current source positive pole, and between its base and collector lies a serially connected rectifying resistor ~~R4~~, which bypasses through the base to connect with the fan activation IC for sending out fan rotation speed control signals with which to form a circuit that adopts a straightforward, easy-to-implement method that offers low-cost and dependable temperature-control characteristics.